

Title (en)

Industrial truck with a charging device

Title (de)

Flurförderzeug mit einem Ladegerät

Title (fr)

Chariots de manutention dotés d'un appareil de chargement

Publication

EP 1829732 A3 20080702 (DE)

Application

EP 07002390 A 20070203

Priority

DE 102006009312 A 20060301

Abstract (en)

[origin: EP1829732A2] The industrial truck has a charging device, asynchronous machine and a three-phase current controller. The load device has a switch power supply which is connected by a transformer with the three-phase current controller. The switch power supply, the three-phase current controller and the transformer form a resonance converter which converts a mains voltage into a charging voltage for the battery.

IPC 8 full level

B60L 11/18 (2006.01); **H02M 3/335** (2006.01)

IPC 8 main group level

H02M 7/00 (2006.01)

CPC (source: EP US)

B60L 53/20 (2019.01 - EP US); **H02J 7/02** (2013.01 - EP US); **H02M 3/01** (2021.05 - EP US); **H02M 3/33573** (2021.05 - EP US); **H02M 7/797** (2013.01 - EP US); **B60L 2200/26** (2013.01 - EP US); **H02J 2207/20** (2020.01 - EP US); **Y02T 10/70** (2013.01 - EP US); **Y02T 10/7072** (2013.01 - EP US); **Y02T 10/92** (2013.01 - EP US); **Y02T 90/12** (2013.01 - US); **Y02T 90/14** (2013.01 - EP US)

Citation (search report)

- [X] JP 2000354331 A 20001219 - TOYOTA MOTOR CORP
- [Y] EP 0553824 A1 19930804 - FUJI ELECTRIC CO LTD [JP]
- [Y] EP 0849112 A1 19980624 - ASK ANTRIEBS STEUERUNGS UND IN [DE]
- [Y] EP 0715389 A1 19960605 - HUGHES AIRCRAFT CO [US]
- [Y] US 6160374 A 20001212 - HAYES JOHN G [US], et al

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CN103348553A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1829732 A2 20070905; EP 1829732 A3 20080702; EP 1829732 B1 20111012; CN 101051758 A 20071010; CN 101051758 B 20100421; DE 102006009312 A1 20070906; US 2009080228 A1 20090326; US 7876072 B2 20110125

DOCDB simple family (application)

EP 07002390 A 20070203; CN 200710084663 A 20070301; DE 102006009312 A 20060301; US 68030007 A 20070228